

C. C. Byers 42-4

**Abstract of the Disclosure**

Internal communication signals in a stored program controlled system comprising a plurality of units configured to process signals are provided by an optical beam line which is proximal to all of the plurality of units. The system of this  
5 invention uses Wavelength Division Multiplexing techniques to provide a plurality of logically independent subchannels over a single shared free space optical beam line.